

Symposium Speakers

ROBERT CAHN is a Senior Staff Member at Lawrence Berkeley National Laboratory and Past Chair of the Division of Particles and Fields.

ALEX CHAO is Professor at SLAC. He received the 2008 Rolf Wideroe Prize of the European Physical Society for contributions to accelerator physics.

SALLY DAWSON is a Senior Staff Member at Brookhaven National Laboratory. She co-chaired *EPP2010* for the National Research Council.

ARNAUD DEVRED is Section Leader for ITER's superconducting systems. He was involved in magnet programs for the LHC and SSC.

SAMUEL E. DYSON is Senior Instructional Specialist, Chicago Public Schools. He won the Golden Apple Award for his teaching at Walter Payton College Prep.

PIERRE FAYET is Directeur de Recherche in the CNRS and member of the Laboratoire de Physique Théorique at École Normale Supérieure in Paris.

RICHARD FIELD is Professor of Physics at the University of Florida and a member of the CDF and CMS collaborations.

FABIOLA GIANOTTI is a member of the CERN staff and Spokesperson of the ATLAS Experiment at the Large Hadron Collider.

PAUL GRANNIS is Research Professor and Distinguished Professor of Physics Emeritus at Stony Brook, and the first D0 Spokesman.

DEBORAH HARRIS is a member of the Fermilab staff and Project Manager for the Minerva Experiment.

JOHN DAVID JACKSON is Professor Emeritus of Physics at the University of California, Berkeley, and the author of *Classical Electrodynamics*.

VERA LÜTH is Professor at SLAC and a member of the BaBar Experiment. She chaired the IUPAP Commission on Particles and Fields.

KATE METROPOLIS is a science writer based in Santa Barbara. She has written extensively about particle physics.

MARY HALL RENO is Chair of Physics & Astronomy at the University of Iowa. She chairs the APS Committee on the Status of Women in Physics.

JONATHAN ROSNER is Professor of Physics at the University of Chicago and a member of the CLEO Collaboration.

ELIZABETH SIMMONS is Dean of Lyman Briggs College and Professor of Physics at Michigan State University.

SŁAWEK TKACZYK is a member of the Fermilab staff and the CMS Collaboration, with responsibility for the silicon tracker.

SCOTT WILLENBROCK is Professor of Physics at the University of Illinois, where he has won numerous teaching awards.

Minute Particulars & Hidden Symmetries

CHRIS QUIGG SYMPOSIUM

FERMILAB · DECEMBER 14-15, 2009



SPEAKERS INCLUDE

ROBERT CAHN
ALEX CHAO
SALLY DAWSON
ARNAUD DEVRED
SAMUEL DYSON
PIERRE FAYET
RICHARD FIELD
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ELIZABETH SIMMONS
SŁAWEK TKACZYK
SCOTT WILLENBROCK

Monday, December 14, 2009

Registration	8:00-9:00 (Wilson Hall 1SW)
Welcome ~ Marcela Carena (Fermilab)	9:00-9:15 • Pier Oddone (Fermilab)
	Young-Kee Kim (Fermilab / University of Chicago)
Session 1 ~ Heidi Schellman (Northwestern University)	9:15-9:50 • Fabiola Gianotti (CERN / ATLAS)
	<i>ATLAS through "First Light"</i>
	9:55-10:30 • Sławek Tkaczyk (Fermilab / CMS)
	<i>CMS Growing Up</i>
Coffee Break	10:30-11:00 (Cafeteria)
Session 2 ~ Maury Tigner (Cornell University)	11:00-11:35 • John David Jackson (University of California / LBNL)
	<i>Archimedes, Higgs, and Falling Honey</i>
	11:40-12:15 • Liz Simmons (Michigan State University)
	<i>A Playful Approach to Physics</i>
	<i>(The Serious Business of Educational Outreach)</i>
	12:20-12:55 • Alexander W. Chao (SLAC National Accelerator Lab)
	<i>Echoes in Accelerators</i>
Lunch	13:00-14:00 (Cafeteria)
Session 3 ~ JoAnne Hewett (SLAC National Accelerator Lab)	14:00-14:35 • Sally Dawson (Brookhaven National Laboratory)
	<i>Exploring Electroweak Symmetry Breaking</i>
	14:40-15:15 • Pierre Fayet (Ecole Normale Supérieure, Paris)
	<i>Supersymmetry, Dark Matter, and New Particles</i>
Coffee Break	15:15-15:45 (Cafeteria)
Session 4 ~ Ken Lane (Boston University)	15:45-16:20 • Paul Garanis (Stony Brook University)
	<i>The Tevatron Legacy</i>
	16:25-17:00 • Kate Metropolis (Santa Barbara)
	<i>Scientists and the Public: A Question of Communication</i>
Reception	17:30-19:00 (Art Gallery, second floor crossover)

Session 5 ~ Christopher T. Hill (Fermilab)	9:00-9:35 • Scott Willenbrock (University of Illinois)
	<i>Physics from the Top</i>
	9:40-10:15 • Samuel E. Dyon (Chicago Public Schools)
	<i>Hard and Important: The Challenges of Teaching Physics and What We Should Do to Improve It</i>
Coffee Break	10:15-10:45 (Cafeteria)
Session 6 ~ Johann Kühn (Karlsruher Institut für Technologie)	10:45-11:20 • Mary Hall Reno (University of Iowa)
	<i>Ultrahigh-Energy Neutrinos</i>
	11:25-12:00 • Rick Field (University of Florida)
	<i>Predicting "Min-Bias" and the "Underlying Event" at the LHC</i>
	12:05-12:40 • Arnaud Devred (ITER)
	<i>The Art of Superconducting Magnets</i>
Lunch	12:45-14:00 (Cafeteria)
Session 7 ~ Michael Whithereil (University of California, Santa Barbara)	14:00-14:35 • Deborah Harris (Fermilab)
	<i>Minute over Short and Long Distances: Neutrino Physics Today and Tomorrow</i>
	14:40-15:15 • Jonathan Rosner (University of Chicago)
	<i>Particles with Beauty and Charm</i>
Group Photo	15:15-15:30 (Atrium)
Coffee Break	15:30-16:00 (Cafeteria)
Session 8 ~ Patricia McBride (Fermilab)	16:00-16:35 • Vera Luth (SLAC National Accelerator Lab)
	<i>100 Years of Beta Decays – Why Do We Continue?</i>
	16:40-17:15 • Robert Cahn (Lawrence Berkeley National Lab)
	<i>Best of All Possible Worlds</i>
	17:15-17:30 • Closing Remarks
Banquet	19:00-21:30 (Art Gallery, second floor crossover)

Tuesday, December 15, 2009